To: Enesta Jones/DC/USEPA/US@EPA[]
From: "EUCI Events" <events@eucievents.com
Sent: Wed 7/25/2012 3:34:22 PM
Subject: An Introductory Course on Hydraulic Fracturing, August 27-28

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In-Depth Introduction to Hydraulic Fracturing

August 27-28, 2012 :: Pittsburgh, PA

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Overview

Hydraulic fracturing is a very common technique in oil and gas drilling. Although the idea is simple to understand, the terminology and processes are more complex. Whether you have a financial or engineering background, this course will be beneficial. The course is designed to give a broad overview of how fracturing works, the terminology used, and the processes that are incorporated into hydraulic fracturing. Attendees will walk away from this course with the ability to identify the processes of hydraulic fracturing and articulate the various challenges and issues associated with this drilling technique.

Topics include

Geology

Classification of rocks
Formation: differentiating formations, time comparison
Porosity and permeability
Geological mapping
Creation of oil and gas: identifying and locating "source rock"

Drilling

What it takes to drill (people, equipment, money, time, etc.)
Differences in drilling techniques: cable vs. rotary vs. fracturing
Vertical and horizontal
Casing in drilling
Problems with drilling: cementing, accidents, regulations
Well completion: well stimulation

Fracturing

Action of fracturing : frac fluid, sand, proppants, flowback
Frac design: amounts, composition, slick water vs. gelled, frac pressure Fracturing (continued)

Shale plays = differences in fracturing (Marcellus vs. Niobrara vs. Barnett vs. Eagle Ford)
Onshore vs. offshore fracturing
Post-treatment reports

Well bore diameter
Fracturing horizontal wells

Truths and Myths

Groundwater contamination
Water used for fracturing
Fracturing causing earthquakes
Emissions stemming from fracturing
EPA's Pavillion, Wyoming, report
Current issues facing fracturing

Future of Hydraulic Fracturing

Regulations and transparency
"Super fracturing": How deep? How far?
Technology developments

Instructed By

David K. Dillon
David K. Dillon is the principal of David K. Dillon PE LLC, a petroleum engineering consulting firm located in Centennial, Colorado. He is a licensed professional engineer in Colorado and Wyoming, and he has been a member of the Society of Petroleum Engineers for more than 35 years. Before starting his career as a consulting engineer, Mr. Dillon worked in the private oil and gas industry for 20 years as a drilling engineer, a production engineer, and a reservoir engineer. He has extensive experience in optimizing production from existing fields, secondary recovery operations, and the calculation of reservoir reserves.